

SCOPE OF WORK (SOW)

Server Infrastructure and Storage Solution

BACKGROUND

The International Law Enforcement Academy (ILEA) in Bangkok was established to train law enforcement professionals, in Asia, and to provide them with the necessary, modern tools and techniques to effectively combat transnational crime, nationally and internationally, by creating inter-institutional and international networks, thus contributing to democracy and to the economic and social development of the nations.

OVERVIEW

ILEA Bangkok is upgrading server infrastructure and storage solution. This upgrade is the core features, which will set the foundation for a more secure, scalable, and fault tolerance to ILEA Bangkok infrastructure. The Contractor must provide the good(s) and/or service(s) based on ILEA Bangkok specifications and requirements.

Details of all required good(s) and/or service(s) for this SOW will be provided; and the contract type for this project must be firm-fixed price.

LOCATION OF WORK

ILEA Bangkok

88/8 Moo 3, Vibhavadi-Rangsit Road, Talad Bangkhen, Laksi, Bangkok 10210, Thailand

DELIVERY SCHEDULE

The Contractor must complete the project including delivering of all good(s) and/or service(s) within 60 days after the Contractor has been awarded.

CONTRACTING OFFICER REPRESENTATIVE (COR):

ILEA Bangkok Chief of Information Technology

Email: SmitB@ileabangkok.com

Telephone: +66 2 973 2220 ext.136

CONTRACTOR REQUIREMENT

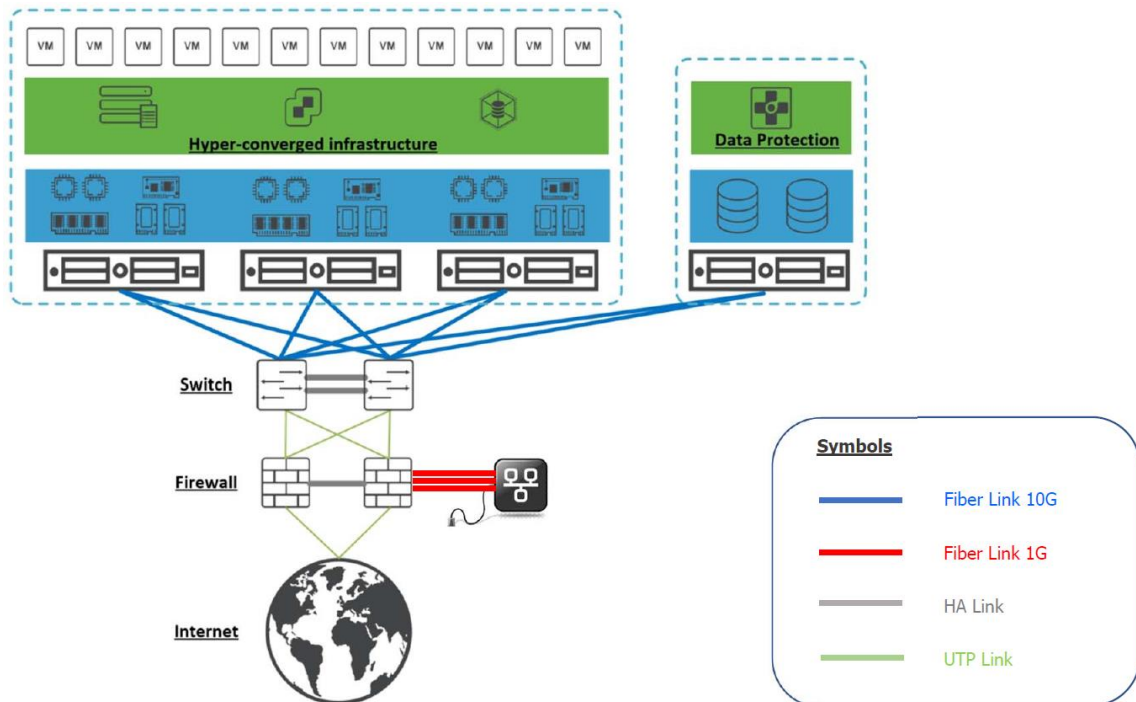
1. The Contractor must be in the information technology solution business for no less than five (5) years – Prove of document is required to COR.
2. The Contractor must be an official distributor and/or partner with the Original Equipment Manufacturer (OEM) for the core product(s) – Prove of document is required to COR.
3. The Contractor's engineer must be certified by the OEM to install and/or configure the core product – Prove of document is required to COR.
4. The Contractor must have worked in a deploying and configuring server infrastructure and/or storage solution before and the value of that project must not be less than \$150,000 USD – Prove of document is required to COR.

TAA COMPLIANT REQUIREMENT

The core equipment that will be implemented for this project must be TAA Compliant, that meaning it is manufactured or substantially transformed in a TAA compliant country – more information [here](#).

DESIGN AND DIAGRAM

1. The Contractor must use the logical diagram provided below as a guideline for the purposed design and solution. The Contractor must update it and provide it if changes are required, describing in details how all components of the solution will be connected.



INSTALLATION, DEPLOYMENT, AND INTEGRATION REQUIREMENT

1. The Contractor shall perform all necessary work to complete this project which include but not limited to installation, deployment, integration, configuration, and migration.
2. The Contractor must track actual project progress on the chart and provide a digital copy of the chart showing the actual progress at the end of every two (2) weeks or whenever requested by the COR.
3. The Contractor must include minor cleanup and disposal efforts upon each day's completion of work. All existing equipment such as non-damaged cables, adapters and mounts that are removed during the execution of the work must be carefully stored in boxes and provided to COR.

LIST OF EQUIPMENT, SOFTWARE, AND/OR LICENSE

The following are the required list of equipment and licenses but not limited to:

1. **Hyperconverged Infrastructure (HCI) Appliance Solution** - Must be equivalent to DELL VXRail-E560F All Flash and the included software. The minimum specifications shall not be less than the followings:

Clustering	3 Nodes
Scaling Increment	1 Node
CPU Cores	72 Cores (24 Cores - 2 Socket, 12 Cores)
CPU Frequency	2.7 GHz
RAM	384 GB (128 GB)
Cache SSD	4.8 TB (1.600 TB) - Usable 2.4 TB
All-Flash Storage	92.16 TB (30.72 TB) - Usable 34.6 TB
Included Software (equivalent to core features)	a) VMware vSAN Edition 6 b) vSphere Standard Edition 6 Hypervisor c) vCenter Stand Edition Management Hypervisor d) vRealize Log Insight – Log Management Tool and Analytics e) Continuous Data Protection (CPD) Software for VMware RPO < 5 Seconds f) (At Least 90 VM Guests License) g) Replicate and Fail over at VM Level and Availability to Start Predefine VM in order (At least 90 VM Guests License)

2. **Backup Appliance Data Domain Deduplication Storage System** – Must be equivalent to DELL EMC DD3300 and the included software.

CAPACITY	8 TB
INTERFACE	10 Gb SFP+
INCLUDED SOFTWARE (equivalent to core features)	a) Backup Software Data Protection Suite – Avamar

3. **Two (2) 24-Port Data Core Switches** – Must be equivalent to Cisco Catalyst 9300 Series Switches with Network Advantage, 350W AC 80+ Platinum Config 1 Secondary Power Supply, 50CM Type 1 Stacking Cable, Stack Power Cable 30 CM, DNA Advantage, 8 x 10 GE Network Module, and 3 Year Term License
4. **Microsoft Windows Server 2019 Standard License** – The Contractor must provide server licenses enough to cover 16 VM guests and 180 CAL device licenses. The Contractor shall perform all necessary work to complete this project but not limited to setup, configure, and/or migrate of new and/or existing VM guests.

WARRANTY AND ONSITE SERVICE AGREEMENT

1. Three (3) years onsite service 24 x 7 x 4.

2. Three (3) years warranty and onsite service on all hardware, including service for advance spare part.
3. Three (3) years of preventive maintenance on a quarterly based, four (4) times per year.

COMPLETION DOCUMENT

1. The Contractor must provide project completion documentations for all hardware and/or software delivered under this project. At a minimum, the closeout documentation must include:
 - a. Comprehensive Bill of Material for all hardware and software delivered under the contract. The list shall include: Item Description, Name of Manufacturer, Model Number, Serial Numbers, Delivered Quantity, Unit Price, Extended Price, Warranty Start and Expiration Date, and Subscription Start and Expiration Date
 - b. OEM manuals for all hardware and software delivered under this project.
 - c. Results of system testing.
 - d. Final Physical and Logical Designs and Diagrams.
 - e. Warranty and Technical Support documentation. Documentation shall include an explanation of coverage, the process to obtain warranty or technical support services, and applicable contact information.
2. The Contractor must provide a physical diagram in a digital copy form of the design for the entire solution including the location and all components being installed.

FAMILIARIZATION

1. The Contractor must provide product familiarization to ILEA system administrators.

CONDITIONS OF TERMINATIONS OF THE PURCHASE ORDER

ILEA Bangkok shall reserve the right to terminate purchase order (PO) but not limited to the followings:

1. All agreements and/or terms must be in line and accepted by ILEA Bangkok. The Contractor may be asked to modify some agreements and/or terms to in line with ILEA Bangkok regulation and policy. If the Contractor does not agree to the change(s), ILEA Bangkok shall have to right to terminate the PO.
2. The Contractor must deliver the good(s) and/or service(s) within the delivery schedule. If the Contractor fails to do so, ILEA Bangkok shall have to right to terminate the PO.